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NOTICE OF ALLOWANCE AND FEE(S) DUE

52123

7590

04/06/2009

GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER

CHERY, MARDOCHEE

ART UNIT PAPER NUMBER

2188

DATE MAILED: 04/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,299	05/04/2006	Hazuki Okabayashi	P29851	6791

TITLE OF INVENTION: CACHE MEMORY AND CONTROL METHOD THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence including d below or directed other tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification of many specifying a new corres	paintenance fees wi condence address;	ill be i and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/578,299	05/04/2006	•	Hazuki Okabayashi	•		P29851	6791
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nonprovisional	NO	\$1510	\$300	\$0	122	\$1810	07/06/2009
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EXAM CHERY, MA		ART UNIT 2188	CLASS-SUBCLASS 711-143000				
			2. For printing on the pa	stant front page list			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be	3 registered patent ely, efirm (having as a gent) and the name neys or agents. If n	attorn membe s of up	er a 2	
PLEASE NOTE: Unl	ess an assignee is identi n in 37 CFR 3.11. Comp	fied below, no assignee	THE PATENT (print or typ data will appear on the pa T a substitute for filing an a (B) RESIDENCE: (CITY	tent. If an assigne assignment.			ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Cor	porati	on or other private gro	up entity 🔲 Government
	are submitted: o small entity discount p f of Copies	ermitted)	 Payment of Fee(s): (Plea A check is enclosed. Payment by credit care The Director is hereby overpayment, to Depos 	I. Form PTO-2038 authorized to charg	is atta	ched.	
••	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	nired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ie applicant; a regis	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature Typed or printed name				Registration No	o		
This collection of informan application. Confident submitting the completed his form and/or suggestion 1450. Alexandria.	ation is required by 37 C iality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or re 1.14. This collection is esti depending upon the indiv- e Chief Information Office COMPLETED FORMS TO	etain a benefit by th mated to take 12 m dual case. Any cor r, U.S. Patent and 7 D THIS ADDRESS.	e publ ninutes nments Tradem SENI	ic which is to file (and to complete, includin s on the amount of tir hark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450.

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10/578,299 05/04/2006		Hazuki Okabayashi	P29851 6791			
52123 75	52123 7590 04/06/2009		EXAMINER			
GREENBLUM &	BERNSTEIN, P.L.	CHERY, MARDOCHEE				
1950 ROLAND CLARKE PLACE			ART UNIT	PAPER NUMBER		
RESTON, VA 201	91		2188			
		DATE MAILED: 04/06/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 148 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 148 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	 10/578,299	OKABAYASHI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	MARDOCHEE CHERY	2188			
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commun IGHTS. This application is suit and MPEP 1308.	his application. If not included ication will be mailed in due course. THIS			
2. 🔀 The allowed claim(s) is/are <u>1 and 3-9 renumbered 1-8</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	No			
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) 🔲 including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of					
each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/12/08 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	ormal Patent Application mmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allowance			

Application/Control Number: 10/578,299 Page 2

Art Unit: 2188

DETAILED ACTION

Response to Amendment

1. This Office action is a reply to applicant's communication filed March 11, 2009 in response to the Office action mailed on December 26, 2008.

- 2. Claims 1 and 3-9 are pending.
- 3. The rejection of claims 1 and 3-9 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement and reciting new matter is withdrawn in view of the remarks filed on March 11, 2009.
- 4. The rejection of claims 1 and 3-9 under 35 U.S.C. 112, second paragraph as being indefinite is withdrawn in view of the remarks filed on March 11, 2009.

Response to Arguments

5. Applicant's arguments filed March 11, 2009 have been fully considered but they are not persuasive.

Allowable Subject Matter

- 6. Claims 1 and 3-9 are allowed.
- 7. The following is an examiner's statement of reasons for allowance: After careful consideration, examination and search of the claimed invention, the closest prior art of record does not teach or anticipate the claimed features of "a holding unit which holds an address range specified by a processor, said holding unit being configured as a register that can be accessed by the processor through an instruction; a search unit which searches for a cache entry holding line data within the address range held in said holding unit; a setting unit which sets, to the searched-out cache entry, the caching

Application/Control Number: 10/578,299 Page 3

Art Unit: 2188

termination attribute indicating that caching is allowed to be terminated, while said cache memory is not being accessed by the processor; wherein storing of the address range in said holding unit is performed according to a data transfer instruction for transferring data to said holding unit" in combination with the overall claimed limitations when interpreted in light of the specification and additionally for the reasons set forth on pages 2-3 of the remarks filed on October 30, 2008.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARDOCHEE CHERY whose telephone number is (571)272-4246. The examiner can normally be reached on 8:30A-5:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sough can be reached on (571)272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/578,299 Page 4

Art Unit: 2188

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hyung S. Sough/ Supervisory Patent Examiner, Art Unit 2188 03/29/09

March 27, 2009

/Mardochee Chery/ Examiner, Art Unit 2188